

This horizontal N-Coil is designed to provide the highest standard of reliability and durability. The CK3B coil casing is unpainted embossed galvanized steel. The cabinet is fully insulated to minimize energy loss.

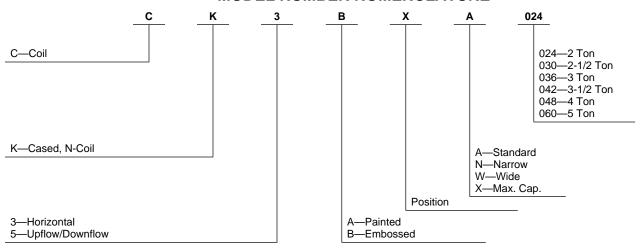
The CK3B is designed for application with horizontal furnaces. The 2-directional airflow allows for either horizontal-right or horizontal-left furnace fit-up. This coil is ideally suited for either attic or crawl space installation.

Our advanced manufacturing methods give a better bond of the fin and tube. Contaminants are not introduced into coil during manufacturing. Galvanic action is minimized. The coils are approved for air conditioning or heat pump application in the horizontal configuration.

The CK3B coil includes a refrigerant control metering device for improved serviceability over check valves and expansion devices used in conventional coils. Sweat-type connections are furnished for installation of the refrigerant tubes.

The coil is designed to provide improved condensate removal. The robust condensate pan has brass inserts in the primary and secondary drain connections and meets FHA requirements.

MODEL NUMBER NOMENCLATURE





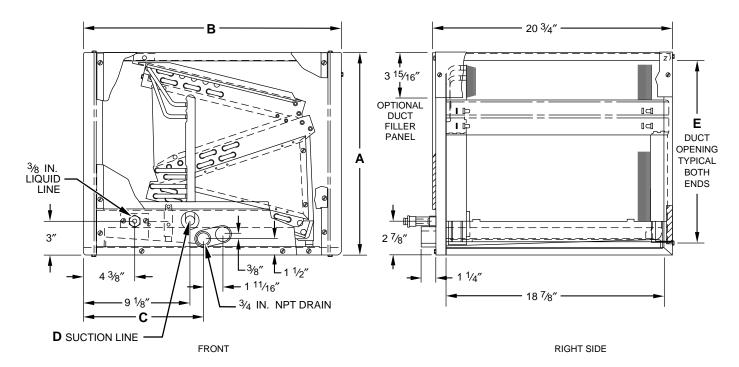








CERTIFICATION APPLIES ONLY WHEN USED WITH PROPER COMPONENTS AS LISTED WITH ARI



A97521

DIMENSIONS (In.)

	Α	В	С	D	E	SHIPPING WEIGHT
UNIT	In.	ln.	ln.	In.	In.	Lb
CK3BXA024	17-9/16	19-1/16	10-1/16	5/8	16	36.0
CK3BXA030	17-9/16	19-1/16	10-1/16	3/4	16	39.5
CK3BXA036	17-9/16	22-1/16	10-1/4	3/4	16	45.5
CK3BXA042	21-1/16	22-1/16	10-1/4	7/8	19-1/2	47.0
CK3BXA048	21-1/16	22-1/16	10-1/4	7/8	19-1/2	51.0
CK3BXA060	24-9/16	28-1/8	13-3/6	7/8	23	64.0

COOLING CAPACITIES (MBH)

	INII	R COII				SA	TURATE	ED TEM	DOOR COIL SATURATED TEMPERATURE LEAVING EVAPORATO								TOR (°F)				
UNIT				30			35			40			45			50					
SIZE	CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF				
		72	38.7	17.9	0.00	35.4	16.4	0.00	32.0	15.0	0.13	28.1	13.3	0.08	23.7	11.6	0.07				
	600	67	32.6	19.5	0.07	29.1	17.9	0.06	25.6	16.3	0.06	21.5	14.5	0.05	16.6	12.5	0.06				
		62	27.0	20.9	0.05	23.4	19.2	0.05	19.8	17.4	0.05	16.2	15.5	0.08	13.3	13.3	0.18				
		72	44.0	20.4	0.21	40.4	18.9	0.17	36.8	17.3	0.13	32.4	15.6	0.11	27.2	13.7	0.10				
A024	800	67	37.4	22.8	0.10	33.5	21.1	0.10	29.5	19.4	0.09	25.0	17.5	0.08	19.7	15.4	0.09				
		62	30.6	25.0	0.07	27.0	23.2	0.08	23.4	21.4	0.09	19.7	19.3	0.12	16.6	16.6	0.23				
		72	47.9	22.3	0.18	44.0	20.7	0.17	40.1	19.2	0.16	35.5	17.4	0.14	30.0	15.4	0.13				
	1000	67	40.7	25.5	0.13	36.6	23.8	0.13	32.4	22.0	0.12	27.3	20.0	0.11	21.9	17.9	0.12				
		62	33.7	28.6	0.10	30.0	26.7	0.11	26.2	24.9	0.12	22.7	22.5	0.17	19.4	19.4	0.28				
		72	54.4	25.3	0.00	48.7	22.7	0.00	43.1	20.1	0.00	36.6	17.3	0.07	29.3	14.5	0.06				
	750	67	45.1	26.5	0.07	39.1	23.7	0.07	33.2	20.9	0.06	26.7	18.1	0.05	20.0	15.2	0.08				
		62	36.0	27.3	0.05	30.5	24.5	0.06	25.0	21.8	0.07	19.7	19.0	0.09	16.1	16.1	0.21				
		72	64.1	29.5	0.00	57.7	26.7	0.00	51.2	23.9	0.19	43.9	20.9	0.12	35.2	17.6	0.10				
A030	1000	67	53.6	31.8	0.11	46.8	28.7	0.10	40.1	25.6	0.10	32.3	22.3	0.09	24.1	18.8	0.11				
		62	43.4	33.4	0.10	36.9	30.3	0.10	30.4	27.2	0.10	24.3	24.0	0.12	20.1	20.1	0.26				
		72	72.1	33.0	0.00	64.7	29.9	0.00	57.3	26.8	0.20	49.4	23.7	0.15	40.1	20.3	0.14				
	1250	67	59.6	35.8	0.14	52.4	32.7	0.14	45.3	29.5	0.13	36.8	25.9	0.13	27.5	22.0	0.15				
		62	49.0	38.4	0.14	42.0	35.2	0.13	35.0	32.1	0.13	28.6	28.4	0.16	23.7	23.7	0.30				
		72	63.4	29.6	0.00	57.2	26.8	0.00	50.9	23.9	0.00	44.3	21.0	0.00	36.3	17.9	0.00				
	900	67	52.1	31.0	0.00	46.0	28.1	0.00	39.8	25.1	0.00	32.8	22.1	0.00	24.9	18.8	0.01				
		62	42.8	32.7	0.00	36.7	29.6	0.00	30.5	26.6	0.01	23.9	23.0	0.04	19.2	19.2	0.18				
		72	75.1	34.7	0.00	67.8	31.6	0.00	60.5	28.5	0.05	52.1	25.1	0.03	43.4	21.8	0.02				
A036	1200	67	61.6	37.2	0.02	54.5	34.0	0.02	47.5	30.8	0.02	39.3	27.3	0.02	30.2	23.4	0.04				
	1200	62	51.1	40.2	0.02	44.0	36.7	0.03	36.9	33.2	0.03	29.3	28.9	0.08	24.2	24.2	0.22				
	1500	72	83.3	38.5	0.17	75.5	35.3	0.13	67.6	32.1	0.09	58.5	28.5	0.06	48.4	24.8	0.06				
		67	69.4	42.5	0.06	61.3	38.9	0.06	53.1	35.4	0.05	44.4	31.7	0.05	34.5	27.5	0.07				
	1000	62	56.6	46.2	0.04	49.3	42.5	0.06	42.0	38.8	0.07	34.3	34.3	0.00	28.8	28.8	0.25				
		72	75.4	35.0	0.00	68.0	31.8	0.00	60.7	28.6	0.07	52.7	25.3	0.00	43.6	21.7	0.23				
	1050	67	62.1	37.3	0.00	55.0	34.0	0.00	47.8	30.7	0.02	39.3	26.9	0.00	30.2	23.1	0.03				
	1030	62	51.5	39.8	0.00	44.2	36.2	0.00	36.9	32.7	0.00	29.1	28.3	0.01	23.7	23.7	0.03				
		72	87.8	40.6	0.01	79.4	37.1	0.01	71.0	33.6	0.02	61.3	29.8	0.05	51.0	25.7	0.20				
A042	1400	67	72.9	44.4	0.16		40.7	0.13	55.9			46.7	33.0	0.03		28.5	0.05				
A042	1400					64.4	_			36.9	0.04				36.1						
	1750	62	60.0	48.3	0.03	52.0	44.3	0.05	44.0	40.3	0.06	35.5	35.5	0.10	29.7	29.7	0.24				
		72	96.3	44.6	0.16	87.4	41.1	0.13	78.5	37.5	0.11	67.9	33.5	0.09	55.9	29.1	0.09				
	1750	67	80.8	50.1	0.08	71.5	46.1	0.08	62.2	42.2	0.08	51.9	37.9	0.08	40.9	33.4	0.10				
		62	65.7	55.1	0.07	57.6	50.9	0.08	49.5	46.6	0.10	41.7	41.7	0.15	35.0	35.0	0.28				
	4000	72	79.8	36.9	0.00	72.6	33.7	0.00	65.4	30.6	0.12	57.0	27.1	0.08	47.5	23.4	0.07				
	1200	67	66.6	39.8	0.07	59.1	36.4	0.06	51.7	33.0	0.06	43.2	29.3	0.05	33.3	25.2	0.07				
		62	55.2	42.8	0.06	47.6	39.1	0.06	40.0	35.4	0.06	32.2	31.3	0.08	26.7	26.7	0.20				
		72	91.0	42.1	0.22	83.0	38.7	0.18	75.0	35.4	0.13	65.4	31.7	0.11	54.5	27.6	0.10				
A048	1600	67	76.7	46.9	0.10	68.1	43.1	0.10	59.5	39.4	0.09	50.1	35.4	0.09	39.4	31.0	0.11				
		62	62.7	51.0	0.08	54.9	47.2	0.09	47.1	43.4	0.10	39.3	39.0	0.13	33.1	33.1	0.25				
		72	99.2	46.1	0.19	90.7	42.7	0.17	82.2	39.4	0.15	72.0	35.5	0.14	60.0	31.2	0.13				
	2000	67	84.0	52.6	0.13	74.8	48.8	0.13	65.7	44.9	0.12	55.1	40.5	0.12	44.0	36.0	0.13				
		62	69.0	58.5	0.11	60.8	54.3	0.12	52.6	50.2	0.14	45.4	45.4	0.18	38.5	38.5	0.30				
	1	72	101.0	46.7	0.00	90.8	42.2	0.00	80.4	37.6	0.12	69.1	33.0	0.08	56.0	28.0	0.07				
	1600	67	83.8	49.9	0.07	73.5	45.2	0.07	63.1	40.5	0.06	51.1	35.3	0.06	38.0	29.8	0.08				
		62	68.7	53.0	0.07	58.2	48.0	0.07	47.7	43.0	0.07	38.2	37.6	0.11	31.6	31.6	0.24				
		72	113.0	52.2	0.00	102.0	47.4	0.00	90.4	42.6	0.14	77.5	37.5	0.11	63.5	32.3	0.10				
A060	2000	67	94.0	56.8	0.10	82.6	51.8	0.10	71.2	46.8	0.09	58.5	41.3	0.10	43.7	35.2	0.11				
		62	77.0	61.2	0.09	66.0	56.0	0.10	55.1	50.7	0.10	45.0	44.7	0.15	37.3	37.3	0.28				
		72	123.0	56.6	0.26	111.0	51.6	0.21	98.4	46.7	0.16	84.2	41.2	0.13	69.4	35.8	0.13				
	2400	67	103.0	62.8	0.13	89.9	57.4	0.13	77.3	52.0	0.12	64.3	46.5	0.12	48.3	40.0	0.14				
	2400	01																			

See notes on page 5.

CFM — Cubic Ft per Minute

EWB — Entering Wet Bulb (°F)

LWB — Leaving Wet Bulb (°F)

TC — Total Cooling Capacity 1000 Btuh

SHC — Total Sensible Capacity 1000 Btuh

BF — Bypass Factor

MBH — 1000 Btuh

NOTES:

- Contact manufacturer for cooling capacities at conditions other than shown in table.
- 2. Formulas:

Leaving db = entering db —
$$\frac{\text{sensible heat cap.}}{1.09 \text{ x CFM}}$$

Leaving wb = wb corresponding to enthalpy of air leaving coil (h_{LWB})

$$h_{LWB} = h_{EWB} - \frac{\text{total capacity (Btuh)}}{4.5 \text{ x CFM}}$$

where h_{EWB} = enthalpy of air entering coil.

- 3. Direct interpolation is permissible. Do not extrapolate.
- 4. SHC is based on 80°F db temperature of air entering coil. Below 80°F db, subtract (Correction Factor x CFM) from SHC. Above 80°F db, add (Correction Factor x CFM) to SHC.
- 5. All data points are based on 10°F superheat leaving coil.
- 6. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

	EN	ENTERING AIR DRY BULB TEMPERATURE (°F)									
	79	78	77	76	75	Under 75					
BYPASS	81	82	83	84	84	Over 85					
FACTOR	Correction Factor										
.,					uoto.						

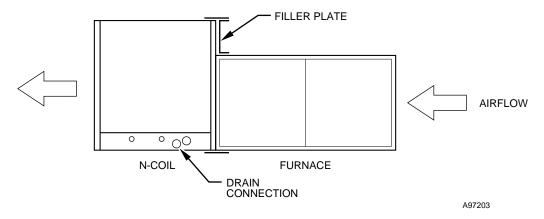
Interpolation is permissible.

Correction Factor = $1.09 \times (1 - BF) \times (db - 80)$

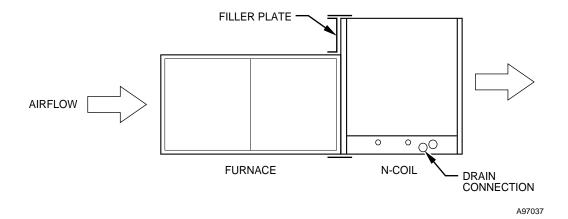
COIL STATIC PRESSURE DROP (In. WC)

UNIT SIZE	BULB	AIR QUANTITY (CFM)										
		600	700	800	900	_	_					
A024	WET DRY	0.08 0.06	0.10 0.08	0.13 0.11	0.16 0.13							
		700	800	900	1000	1100	_					
A030	WET DRY	0.08 0.08	0.12 0.10	0.15 0.14	0.19 0.17	0.23 0.21						
		900	1000	1100	1200	1300	_					
A036	WET DRY	0.16 0.13	0.19 0.17	0.23 0.21	0.27 0.25	0.32 0.29	_					
		1000	1100	1200	1300	1400	_					
A042	WET DRY	0.18 0.14	0.21 0.17	0.24 0.20	0.27 0.23	0.31 0.26						
		1300	1400	1500	1600	1700	_					
A048	WET DRY	0.19 0.18	0.22 0.21	0.25 0.24	0.28 0.27	0.31 0.30						
	-	1600	1700	1800	1900	2000	2100					
A060	WET DRY	0.19 0.18	0.22 0.20	0.24 0.21	0.26 0.24	0.28 0.26	0.30 0.28					

TYPICAL N-COIL HORIZONTAL INSTALLATIONS



Horizontal Left



Horizontal Right

SERVICE TRAINING

Packaged Service Training programs are an excellent way to increase your knowledge of the equipment discussed in this manual, including:

- Unit Familiarization
- Maintenance
- Installation Overview
- Operating Sequence

A large selection of product, theory, and skills programs is available, using popular video-based formats and materials. All include video and/or slides, plus companion book.

Classroom Service Training plus "hands-on" the products in our labs can mean increased confidence that really pays dividends in faster troubleshooting, fewer callbacks. Course descriptions and schedules are in our catalog.

CALL FOR FREE CATALOG 1-800-962-9212

	I	[]	Packaged Service Training	[]	Classroom	Service	Training
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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS

Cancels: PDS CK3B.24.1B